2011-04-20 Wednesday Morning Notes

Wednesday, April 20, 2011 7:25 AM

Stacking and Transfers

- Stacked
- Unstacked 523E10 in 59 transfers over 19 sets with an overall efficiency of 93.7%
 - Take out 24170 (4/19/11 15:53, 70mA)
 - o 24171 (4/19/11 18:49, 63mA)
 - o Still only 94.7%

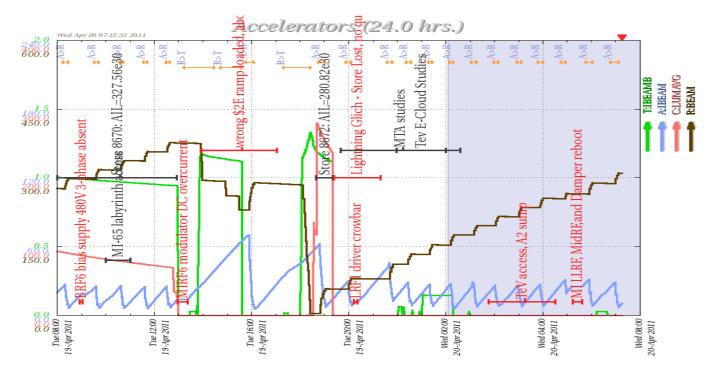
Operational Notes

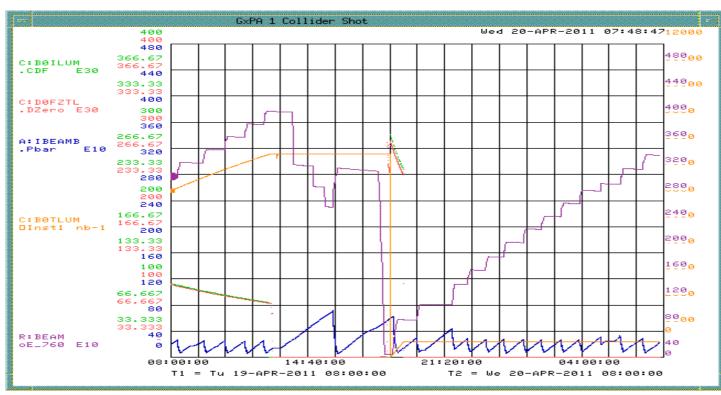
- Lost helix supply H1HV01 and H1TW01 won't stay on after evening shift lightning glitch. Tunnel problem.
- Target is showing signs of further degradation.

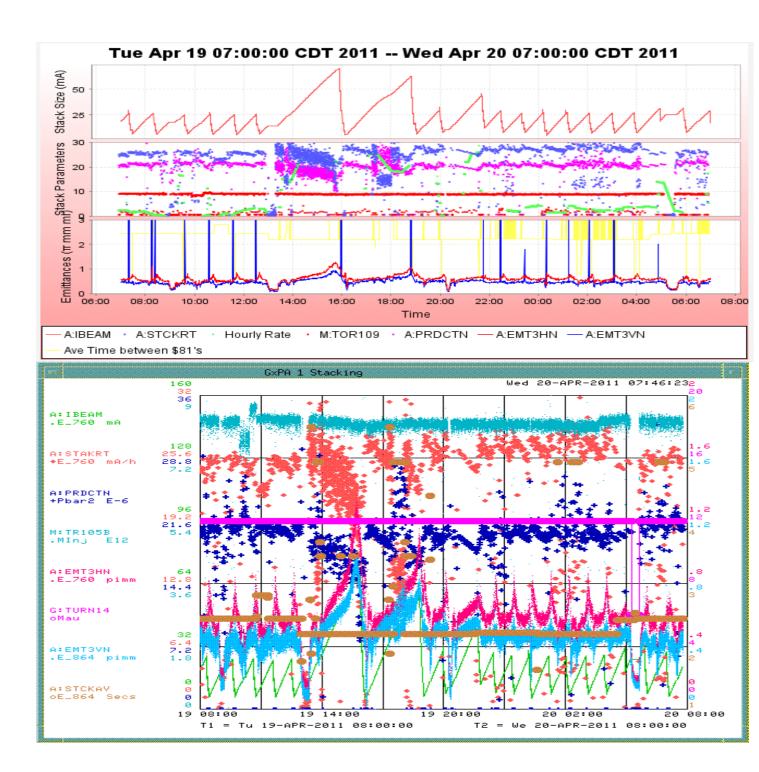
Numbers

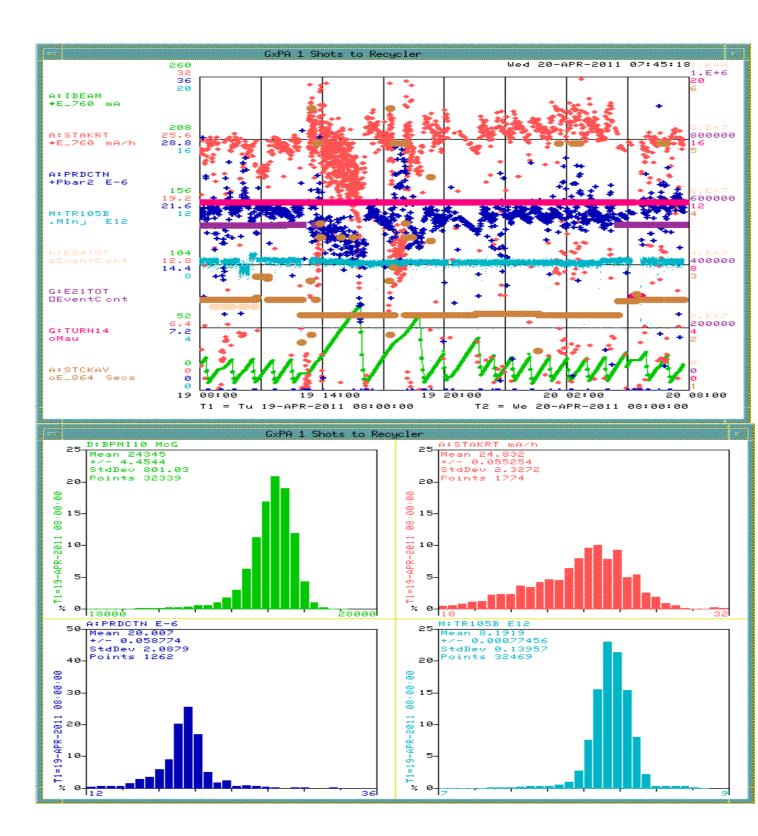
- Stacking
 - Pbars stacked: 536.42 E10Time stacking: 23.71 Hr
 - o Average stacking rate: 22.63 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 35835
 - o Number of pulses with beam: 32856
 - o Fraction of up pulses was: 91.69%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 21.74 Hr
 - o Possible average stacking rate: 24.68 E10/Hr
 - Could have stacked: 585.06 E10/Hr
- Recycler Transfers
 - o Pbars sent to the Recycler: 522.21 E10
 - Number of transfers : 59
 - o Number of transfer sets: 19
 - Average Number of transfer per set: 3.11
 - Time taken to shoot including reverse proton tuneup: 00.21 Hr
 - o Transfer efficiency: 93.13%
- Other Info
 - Average POT: 8.19 E12
 - Average production: 19.94 pbars/E6 protons

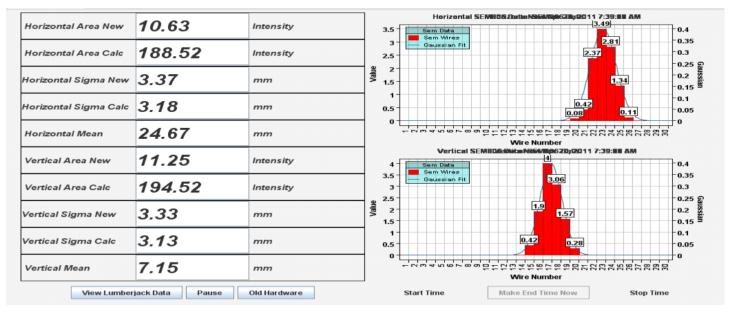
Plots

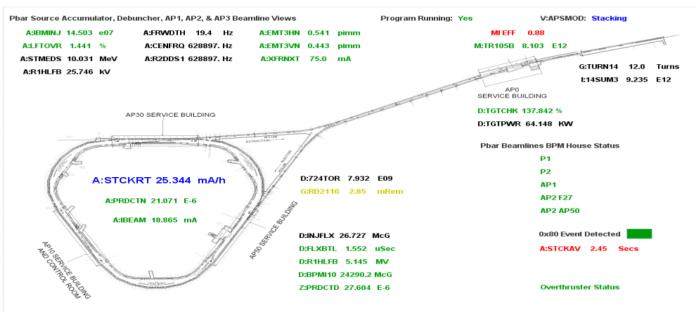


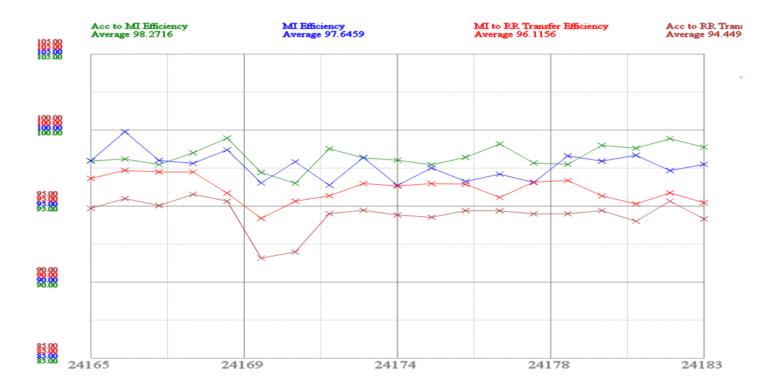




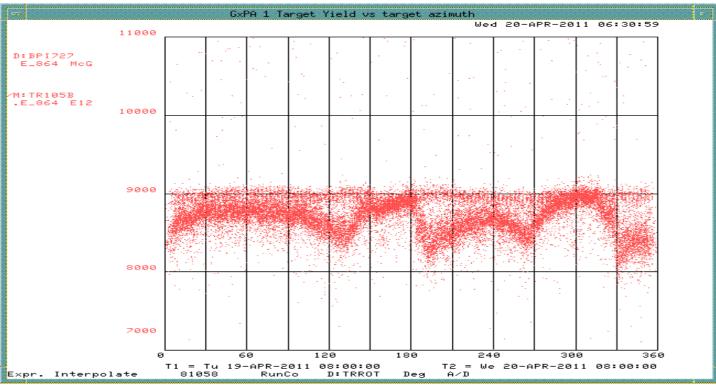








Colum n 1 Numbe r_0_Pb ar Transf er Shot #	Column 4 Number_3_Transfe	er Time	A:IBEAMB			n 23 Numbe r_22_R :BEAM S (R:BE AME0[0]) pre	n 24 Numbe r_23_R :BEAM (R:BE AME0[1])	Stashed		Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Tra nsfe rs		Number	n 6 Numbe r_5_Ac c Vertica I Emitta	n 8 Numbe r_7_Ac c Longit udinal
	Totals =>				523.17			490.01	93.66%	97.96%	95.47%	93.52%	59	19	5.9428	4.4614	1.9455
	Daily Average =>				523.17			490.01					59	19			
24183	Wednesday, April 20, 2011	6:58		6.70	25.02	287.75	310.72	23.48	93.84%	98.74%	96.72%	95,51%	3	1	5.393	4.075	1.92
24182	Wednesday, April 20, 2011	5:54		8.19	26.31	264.78	289.40	25.06	95.26%	99,44%	96,95%	96,41%	3	1	5.611	4.173	1.949
24181		4:56		19.30	12.25	254.66	266.17	11.51	94.01%	98.81%	97.17%	96.02%	1	1	5.967	4,793	1.885
24180		3:53		7.83	22.47	235.19	256.03	21.26	94.63%	99.07%	96.72%	95.82%	3	1	6.052	4.245	1.976
24179		3:00		7.57	22.34	215.33	236.14	21.13	94.60%	97.58%	96,54%	94.20%	3	1	6.095	4.319	1.968
24178		2:03		7.61	21.94	195.82	216.22	20.70	94.37%	97.72%	94.55%	92.39%	3	1	5.925	4.297	1.968
24177	Wednesday, April 20, 2011	1:10		7.71	22.46	175.56	196.53	21.21	94.42%	98.75%	96.03%	94.83%	3	1	5.618	4.478	1.98
24176		0:12	27.79	5.44	23.86	153.75	176.11	22.57	94.61%	98.34%	94.80%	93.22%	3	1	4.949	3.615	1.939
24175	Tuesday, April 19, 2011	23:19		7.69	22.32	133,44	154.22	21.04	94.29%	97.97%	95.60%	93,66%	3	1	5.935	4.293	1.994
24174	Tuesday, April 19, 2011	22:27	29.14	8.26	23.55	111.87	133.88	22.22	94.37%	98.04%	94.56%	92.71%	3	1	5.933	4.465	1.988
24173	Tuesday, April 19, 2011	21:41	44.11	12.52	34.17	80.19	112.22	32.32	94.60%	98.13%	96,26%	94.46%	3	1	6.245	4.814	1.891
24172	Tuesday, April 19, 2011	19:59		8.06	24.98	57.11	80.54	23.61	94.54%	98.99%	95.59%	94.62%	3	1	5.891	4,631	1.964
24171	Tuesday, April 19, 2011	18:49		6.73	60.90	4.12	58.28	55.27	90.75%	96.32%	93.61%	90.16%	5	1	8.05	5.837	1.892
24170		15:53		5.58	69.08	230.13	290.30	62.45	90.41%	96.93%	93.47%	90.60%	5	1	7.779	5,686	1.783
24169		12:31	25.97	6.45	22.09	356.50	377.24	21.05	95.33%	99.18%	98.12%	97.31%	3	1	5.546	4.188	1.993
24168		11:36		6.14	21.70	337.20	357.62	20.79	95.81%	98.50%	96.32%	94.88%	3	1	5.554	4.16	1.975
24167	Tuesday, April 19, 2011	10:37	26.15	6.38	22.25	317.50	338.30	21.09	94.78%	97.51%	95.14%	92.77%	3	1	5.326	4.31	1.974
24166		9:35		6.23	21.95	297.63	318.30	20.93	95.38%	98.20%	97.28%	95.53%	3	1	5,479	4.202	1.98
24165	Tuesday, April 19, 2011	8:20	27.32	6.28	23.56	276.52	298.54	22.29	94.63%	97.80%	95.90%	93.78%	3	1	5,566	4.186	1.945



Target 17 degrading

